

**What is claimed is:**

1. A method of providing the communication between two or more control units of a control apparatus that controls at least one electronic device which comprises two or more peripheral units, wherein the method comprises the steps of:

providing a common bus;

connecting two or more control units through said common bus;

controlling, through each control unit, at least one peripheral unit of the device to provide data essential to the operation of the peripheral unit and to detect possible data variations in said peripheral unit; and

providing a master controller connected to the common bus

and further the steps, carried by each of said control units, of:

submitting information concerning the consumed data and those provided by the peripheral units controlled by said control units, to said master control (CONT); and

sending a message (M) over the bus (BUS) whenever at least one of the data provided by the peripheral units controlled by said control units varies.

2. A method according to claim 1, wherein the step of submitting information to the master controller comprises the step of transmitting to the master controller the structure of its own message comprising information provided and/or information consumed/acquired.

3. A method according to claim 1, wherein it further comprises the step of assigning a suitable address to each of said control units.

4. A method according to claim 1 wherein the step of sending a message comprises the step of sending a message comprising a first portion and a second portion, said first message portion comprising information concerning the control

unit that has detected a data variation in the controlled peripheral unit/units and information concerning the control units that will consume the transmitted data.

5. A method according to claim 4, wherein the information concerning the control units that will consume the transmitted data comprise a logic address for representing a group of control units consuming the same data item.

6. A method according to claim 1, wherein it comprises the additional step of providing each control unit with a counter that counts forward at each message sent by said control unit.

7. A method according to claim 6, wherein it further comprises the step of writing the value of said counter into every message taht is sent.

8. A method according to claim 1, wherein the step of sending a message comprises the step of sending a message comprising at least one control bit to control the regularity of the information exchange.

9. A method according to claim 1, wherein it further comprises the additional step of disabling said master controller after having established the communication between said control units.

10. A method according to claim 1, wherein said device is a device for receiving/transmitting and processing signals in radio link systems.

11. An apparatus for controlling an electronic device which comprises two or more peripheral units, the apparatus comprising:

two or more control units, each control unit controlling at least one peripheral unit of the device to provide data necessary for the operation of the peripheral unit and detect possible data variations of said peripheral unit;  
a common bus (BUS) for connecting said two or more control units (C);

wherein the apparatus further comprises a master controller (CONT) connected to the common bus (BUS) and wherein there are provided, in each control unit:

means for submitting, to said master controller (CONT), information concerning the consumed data and the ones provided by the peripheral units that are controlled by said control units; and

means for sending a message (M) whenever at least one of the data provided by the peripheral units controlled by said control units varies.

12. An apparatus according to claim 11, wherein said device is a device for receiving/transmitting and processing signals in radio link systems.

13. A computer program comprising program code means adapted to perform one or more of the steps of the method according to claim 1 when said program is run on a computer.

14. A computer-readable medium having a program recorded thereon, said computer readable medium comprising computer program code means adapted to perform one or more of steps of the method according to claim 1 when said program is run on a computer.